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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

09/25/2008

Seymour Levine 2 Chateaux Circle Scarsdale, NY 10583 EXAMINER
OLSEN, LIN B
ART UNIT PAPER NUMBER

3661 DATE MAILED: 09/25/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,707	03/30/2004	Ronald K. Richey	SM 1075	7209

TITLE OF INVENTION: RUDDER CONTROL SYSTEM WITH ADJUSTABLE SOLENOID ON/OFF SETTINGS, SOLENOID BURNOUT PROTECTION, AND HYDRAULIC SYSTEM MONITORING

APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1440 \$0 \$0 \$0 \$1440 12/26/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

	ed below or directed of	ng the Patent, advance of herwise in Block 1, by (
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 7590 09/25/2008				Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompan papers. Each additional paper, such as an assignment or formal drawing, have its own certificate of mailing or transmission.				y other accompanying	
Seymour Levin 2 Chateaux Circ Scarsdale, NY 1		State	reby certify that the es Postal Service versed to the Mail	is Fee(vith suf Stop	of Mailing or Trans s) Transmittal is being ficient postage for fir ISSUE FEE address 1) 273-2885, on the d	g depo st clas abov	osited with the United as mail in an envelope e, or being facsimile		
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTC	RNEY DOCKET NO.	CC	NFIRMATION NO.
10/814,707	03/30/2004	•	Ronald K. Richey	y			SM 1075		7209
TITLE OF INVENTION PROTECTION, AND H		ROL SYSTEM WITH MONITORING	ADJUSTABLE SO	LEN	OID ON/OFF S	ETTIN	GS, SOLENOID B	J RN (DUT
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE I	OUE	PREV. PAID ISSU.	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1440	\$0		\$0		\$1440		12/26/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	3					
OLSEN	I, LIN B	3661	701-021000						
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Com GNEE	A TO BE PRINTED ON tified below, no assignee pletion of this form is NC	e data will appear on t DT a substitute for filin (B) RESIDENCE: (G	he pa g an a	ntent. If an assign assignment. and STATE OR C	COUNT	TRY)		
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent):		Individual 🖵 Co	orporat	on or other private gr	oup er	ntity Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s):		se first reapply a	ny prev	iously paid issue fee	show	n above)
Issue Fee	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.								
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
5. Change in Entity Sta	tus (from status indicate		☐ b. Applicant is no	o lons	er claiming SMA	LL EN	ΓΙΤΥ status. See 37 C	FR 1.	27(g)(2).
NOTE: The Issue Fee an	d Publication Fee (if req	uired) will not be accepted	ed from anyone other t	-					
Authorized Signature					Date				_
Typed or printed name									
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	d application form to the ions for reducing this bu /irginia 22313-1450. DO	CFR 1.311. The informati 5 U.S.C. 122 and 37 CFR e USPTO. Time will var- irden, should be sent to the D NOT SEND FEES OR	ion is required to obtain 1.14. This collection y depending upon the chief Information COMPLETED FORM	n or re is esti indiv Office IS TO	etain a benefit by t imated to take 12 r idual case. Any co r, U.S. Patent and D THIS ADDRESS	he pub minute: ommen Trader S. SEN	ic which is to file (and to complete, including s on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	I by the second	the USPTO to process) thering, preparing, and ou require to complete int of Commerce, P.O. atents, P.O. Box 1450,

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75	90 09/25/2008		EXAM	IINER	
Seymour Levine	Seymour Levine		OLSEN, LIN B		
2 Čhateaux Circle Scarsdale, NY 10583			ART UNIT	PAPER NUMBER	
			3661		
			DATE MAILED: 09/25/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 894 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 894 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/814,707	RICHEY, RONALD K.				
Notice of Allowability	Examiner	Art Unit				
	LIN B. OLSEN	3661				
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to and MPEP 1308.	olication. If not included will be mailed in due course. THIS				
1. This communication is responsive to the amendment after	final filed juLY 25, 2008.					
2. ☑ The allowed claim(s) is/are <u>10-13 and 17-26</u> .						
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF						
INFORMAL PATENT APPLICATION (PTO-152) which give						
5. \square CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	otant Application				
2. ☐ Notice of Preferences Cited (PTO-692) Provided in Preferences Cited (PTO-692) Provided in Preferences Cited (PTO-692)	6. ☐ Interview Summary					
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7. ⊠ Examiner's Amendn	e ´				
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	_	nt of Reasons for Allowance				
of Biological Material	9. ☐ Other					

DETAILED ACTION

Response to Amendment

The amendment to claims 17 and 21-26 have been entered, claim 27 has been cancelled. Claims 10-13, and 17-26 are in this application. Applicant's amendments and arguments, see pages 8-10 filed July 28, 2008 with respect to claims 17 and 21-26 have been fully considered and are persuasive. The rejection of claims 17-26 has been withdrawn.

The reply filed on July 28, 2008 is not fully responsive to the prior Office Action because of the following omission(s) or matter(s): Applicant's amendment to the abstract was not on a separate sheet as specified in 37 CFR §1.121(h) See 37 CFR 1.111. Since the above-mentioned reply appears to be *bona fide*, the Examiner has entered the amendment as an Examiner's amendment.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Seymour Levine on Aug. 26, 2008.

In the Abstract, line 2 delete "ware" and insert –wear--.

The application has been amended as follows:

Allowable Subject Matter

Claims 1—13 and 17-26 are allowed.

The following is an examiner's statement of reasons for allowance:

The cited prior art neither teaches nor suggests allowing solenoids to be energized at a frequency exceeding a set burnout protection frequency and allowing the exceeding action to trigger adjusting the parameter that causes energizations. In making such adjustments, the prior art does not teach or suggest determining a difference between a rudder order and a rudder stop position after the rudder drive system has achieved a turnoff point in response to the rudder order, comparing that difference to a predetermined rudder position tolerance and when the difference exceeds the rudder position tolerance, using the difference to determine the corrected turnoff point for the rudder drive system so that the rudder stops within the predetermined rudder position tolerance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LIN B. OLSEN whose telephone number is (571)272-9754. The examiner can normally be reached on Mon - Fri, 8:30 -5.

Application/Control Number: 10/814,707

Art Unit: 3661

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Black can be reached on 571-272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lin B Olsen/ Examiner, Art Unit 3661

/Thomas G. Black/

Supervisory Patent Examiner, Art Unit 3661